Fig. 1

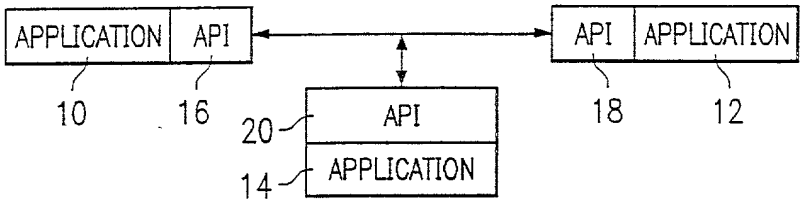


Fig. 2

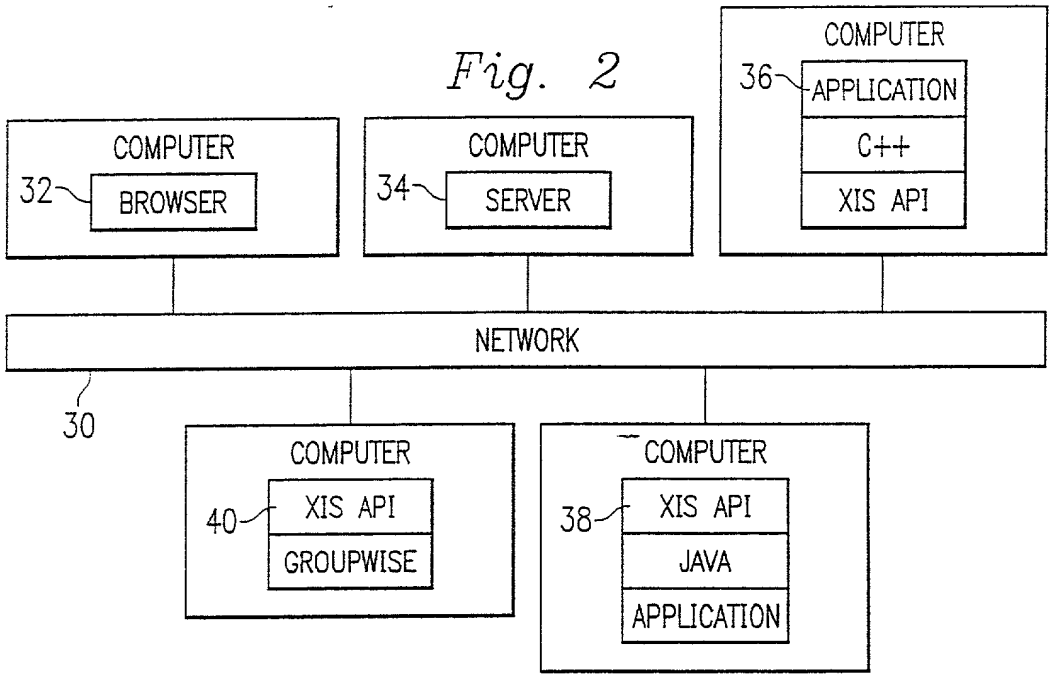
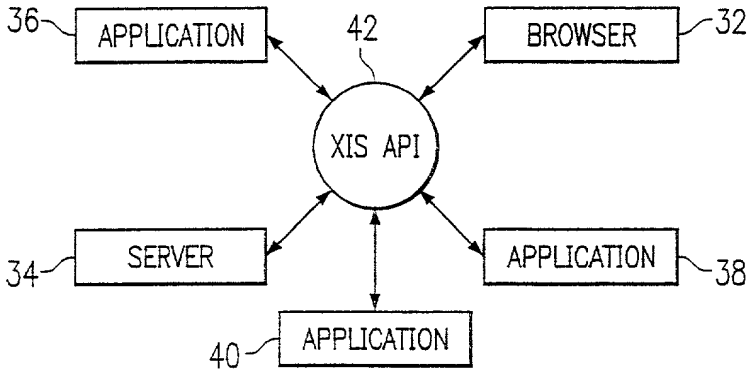


Fig. 3



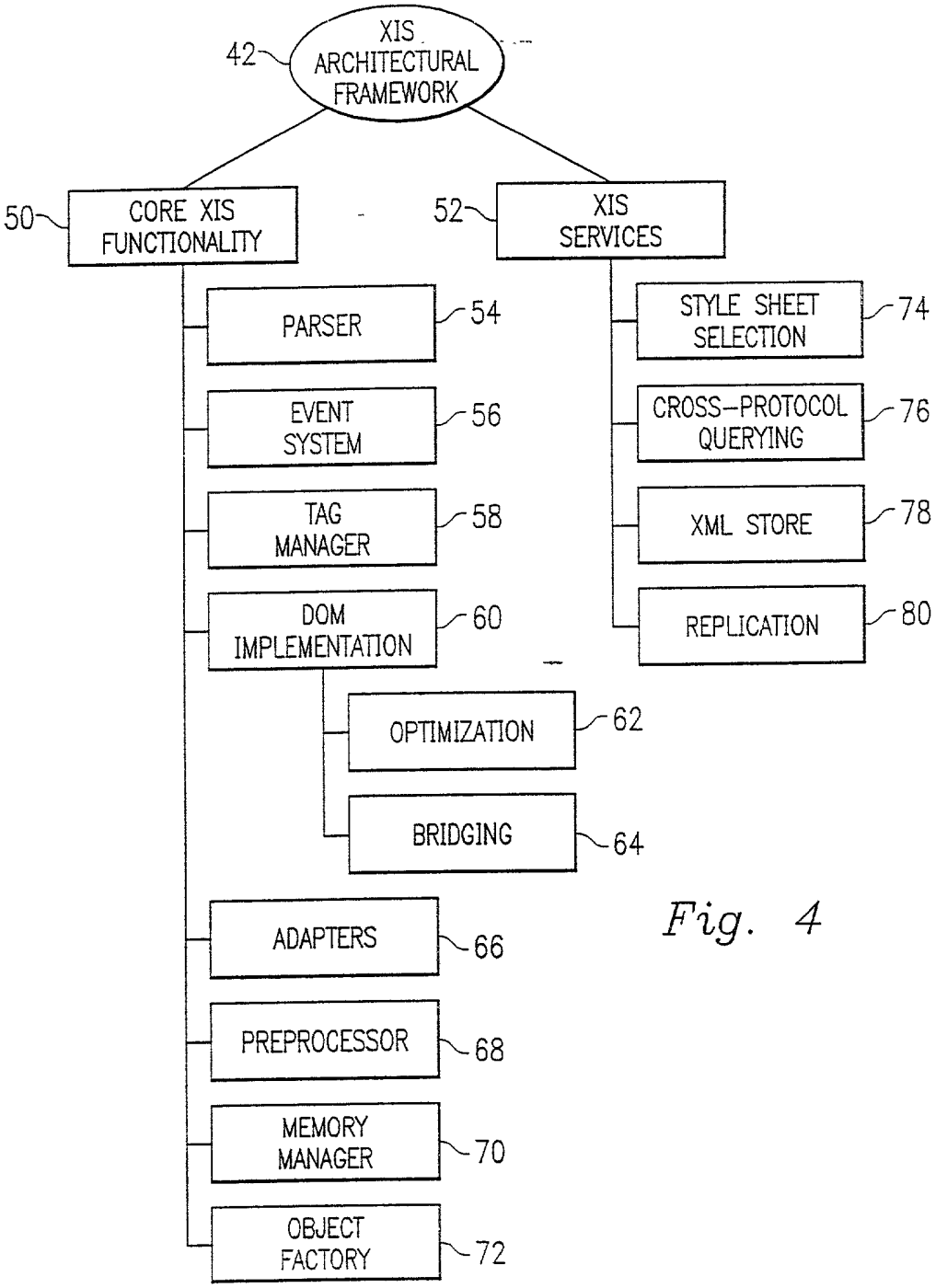

42
XIS ARCHITECTURAL FRAMEWORK
50
CORE XIS FUNCTIONALITY
52
XIS SERVICES
PARSER
54
EVENT SYSTEM
56
TAG MANAGER
58
DOM IMPLEMENTATION
60
OPTIMIZATION
62
BRIDGING
64
ADAPTERS
66
PREPROCESSOR
68
MEMORY MANAGER
70
OBJECT FACTORY
72
STYLE SHEET SELECTION
74
CROSS-PROTOCOL QUERYING
76
XML STORE
78
REPLICATION
80

Fig. 4

Fig. 5

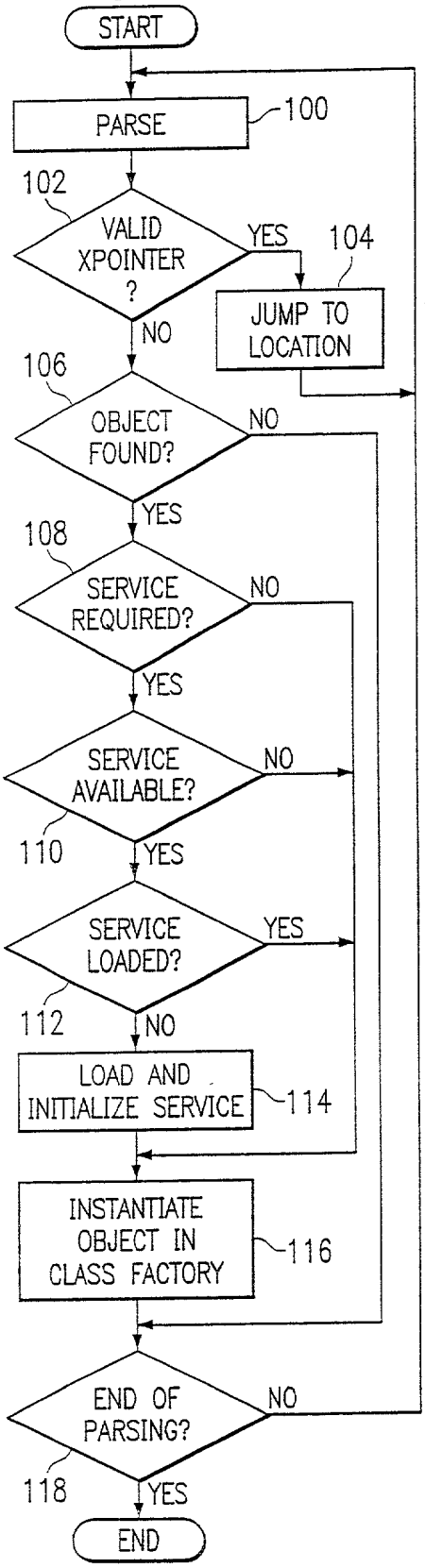
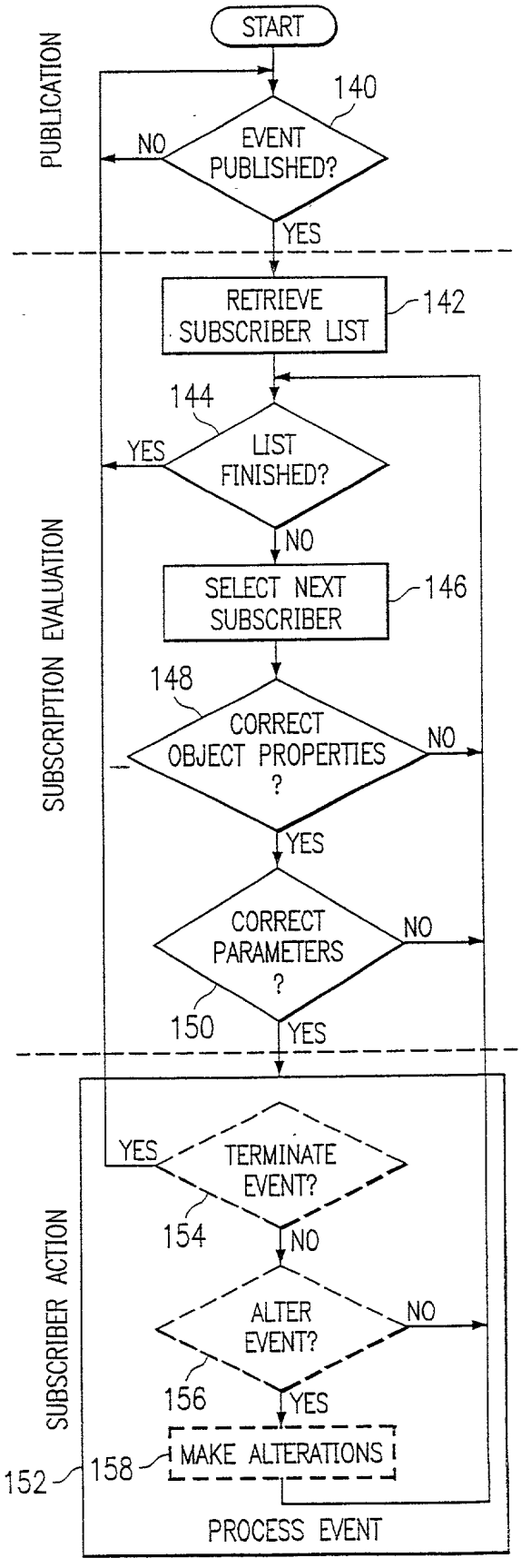


Fig. 6



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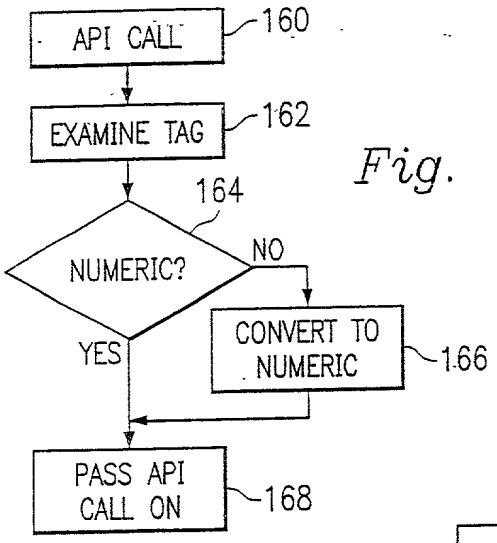


Fig. 7

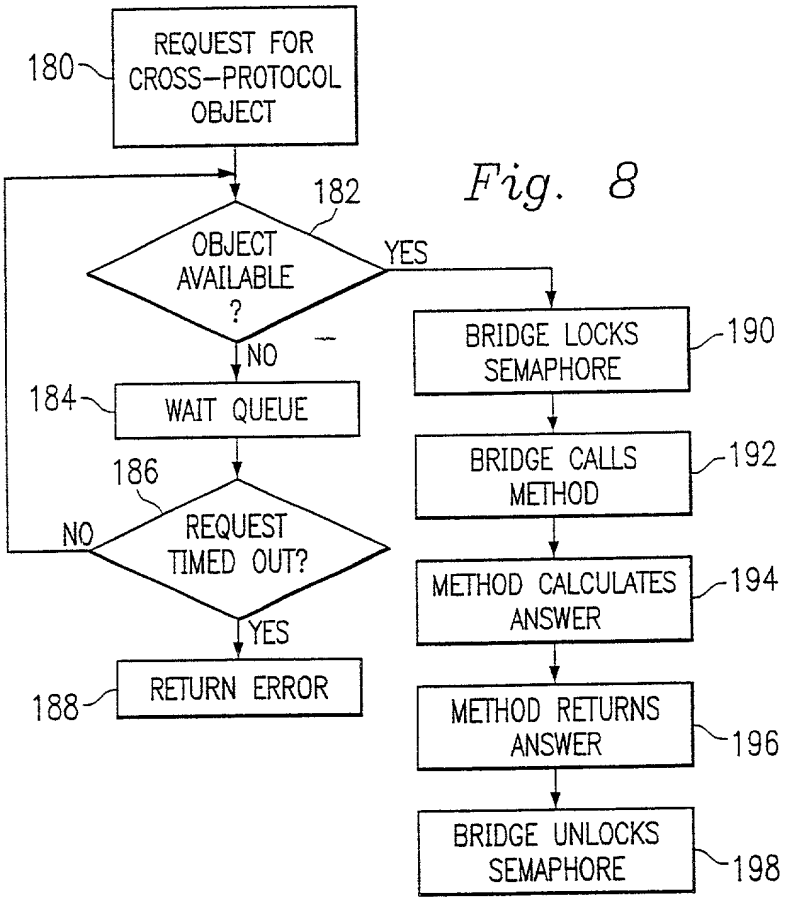
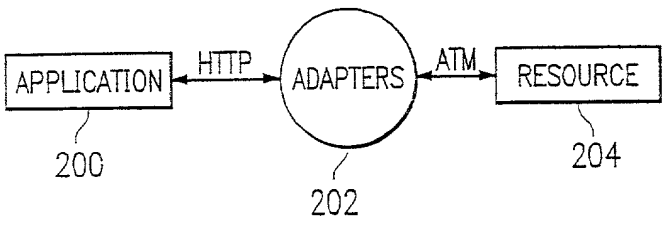


Fig. 8

Fig. 9



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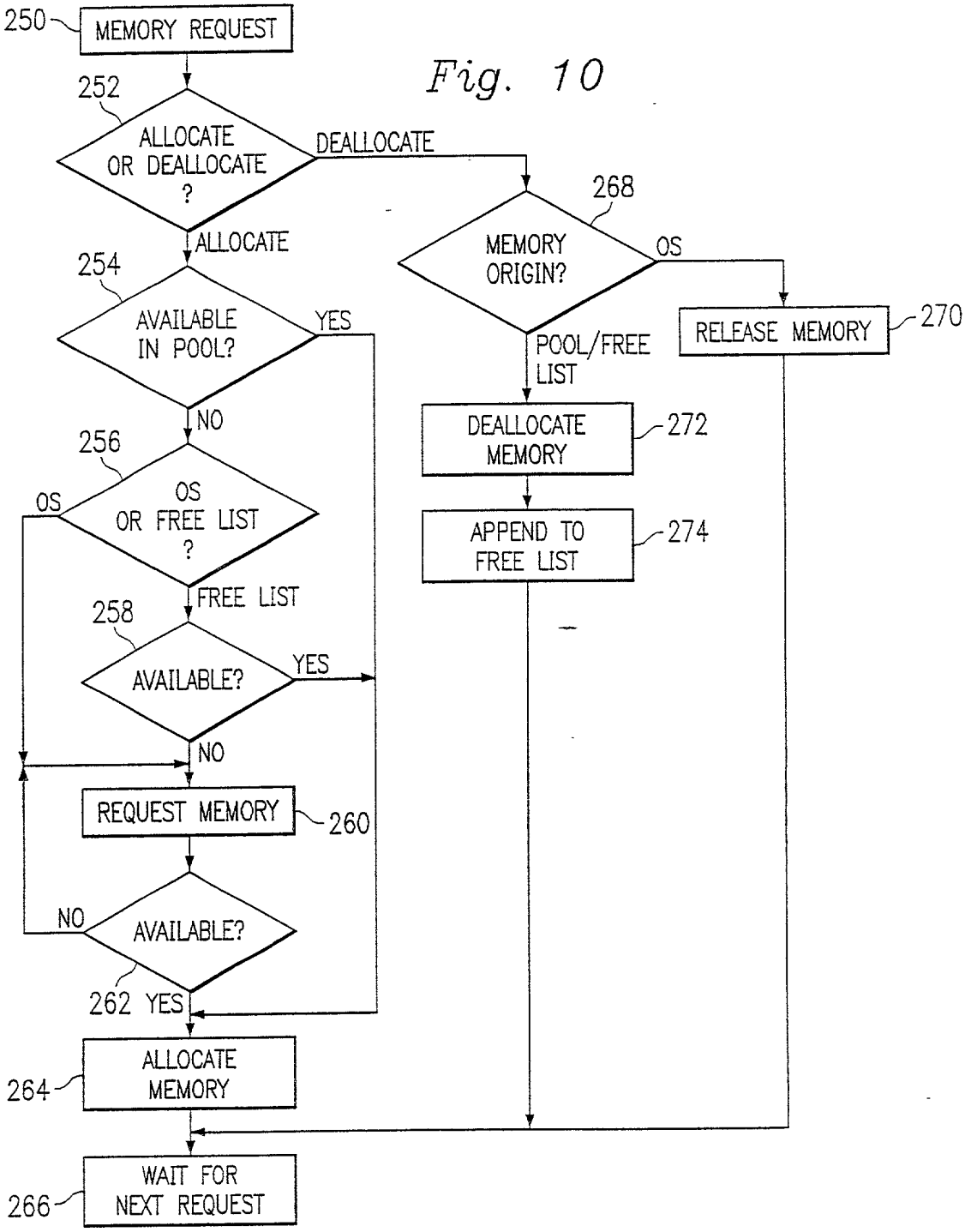
250
MEMORY REQUEST
252
ALLOCATE OR DEALLOCATE ?
DEALLOCATE
ALLOCATE
254
AVAILABLE IN POOL?
YES
NO
256
OS OR FREE LIST ?
OS
FREE LIST
258
AVAILABLE?
YES
NO
REQUEST MEMORY
260
NO
AVAILABLE?
262 YES
264
ALLOCATE MEMORY
266
WAIT FOR NEXT REQUEST
268
MEMORY ORIGIN?
OS
POOL/FREE LIST
270
RELEASE MEMORY
272
DEALLOCATE MEMORY
274
APPEND TO FREE LIST

Fig. 10

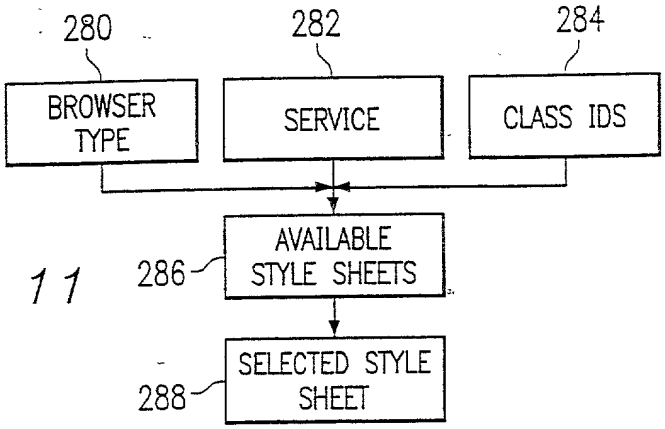
280
282
284
BROWSER TYPE
SERVICE
CLASS IDS
AVAILABLE STYLE SHEETS
286
SELECTED STYLE SHEET
288

Fig. 11

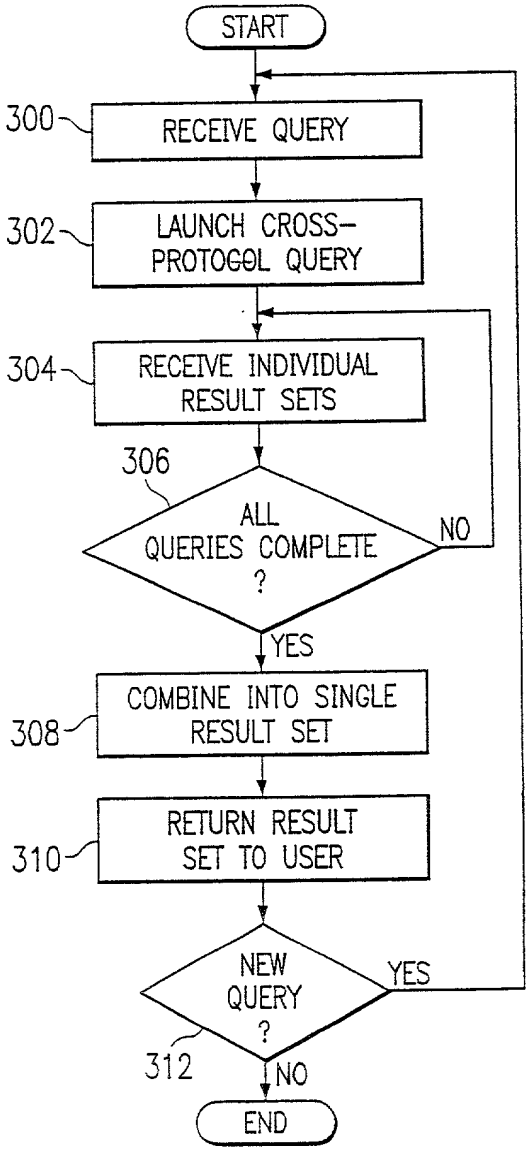
START
300
RECEIVE QUERY
302
LAUNCH CROSS-PROTOCOL QUERY
304
RECEIVE INDIVIDUAL RESULT SETS
306
ALL QUERIES COMPLETE ?
NO
YES
308
COMBINE INTO SINGLE RESULT SET
310
RETURN RESULT SET TO USER
NEW QUERY ?
YES
312
NO
END

Fig. 12